

Applicant: Veli Käsmä et al.
PCT App. No.: PCT/FI03/00181

Claim Listing

- 1–7. (cancelled)
8. (new) A method for coating a surface of a continuous web, comprising the steps of:
- moving the continuous web having a first surface defining a first side and a second surface defining a second side, between a first electrode at a first potential located on the first side and spaced from the first surface and a second electrode at a second opposite potential, located on the second side and spaced from the second surface;
 - applying a coating powder to the first surface of the web to form a first coated surface, and to the second surface of the web to form a second coated surface, forming both the first and the second coated surfaces essentially simultaneously by utilizing the difference in the electric potential between the first potential and the second opposite potential; and
 - finishing the first coated surface and the second surface by conveying the web through a nip formed between two heated members.
9. (new) The method of claim 8, wherein the two heated members are two heated rolls.
10. (new) The method of claim 9, wherein the two heated rolls are hard rolls.
11. (new) The method of claim 10, wherein the two heated rolls are hard rolls having a surface roughness of less than 0.1 μm .
12. (new) The method of claim 9, wherein the two heated rolls have a temperature of 80–350° C.

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13. (new) The method of claim 8, wherein the first electrode and the second electrode are corona charging electrodes.

14. (new) The method of claim 13, wherein the corona charging electrodes are wire-shaped electrodes.

15. (new) The method of claim 8, wherein the coating powder is pre-charged.

16. (new) The method of claim 8, wherein the coating powder is applied on the web by supplying it in an electric field created by the first electrode and allowing an electric field created by the second electrode to draw particles of the coating powder on to the web.